Docket No.

245259US0DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Shigeru KAWAHARA, et al.

SERIAL NO: 10/706,083

GAU:

1621

FILED:

November 13, 2003

EXAMINER: Puttlitz, K.J.

FOR:

NOVEL INTERMEDIATE FOR SWEETENER WITH HIGH SWEETNESS AND PROCESS FOR PRODUCING

THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313 RECEIVED

Applicant(s) wish to disclose the following information.

OCT 0 4 2004

OFFICE OF PETITIONS

REFERENCES

	The applicant(s) wish to make of record the references cited on the attached Supplementary European Search
_	Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as
	are either statements of relevancy or any readily available English translations of pertinent portions of any non-
	English language references.

☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be
related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies
of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the
attached PTO form 1449.

A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon

Vincent K. Shier, Ph.D.

Registration No. 50,552

Customer Number

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

Docket No. 245259US0DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Shigeru KAWAHARA, et al.

SERIAL NO:

10/706,083

GAU:

1621

FILED:

EXAMINER: Puttlitz, K.J.

FOR:

November 13, 2003

NOVEL INTERMEDIATE FOR SWEETENER WITH HIGH SWEETNESS AND PROCESS FOR PRODUCING THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313 RECEIVED

OCT 0 4 2004

Applicant(s) wish to disclose the following information.

OFFICE OF PETITIONS

REFERENCES

- The applicant(s) wish to make of record the references cited on the attached Supplementary European Search Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon

Vincent K. Shier, Ph.D. Registration No. 50,552

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

Form PTO 1449		U.S. DEPARTMENT	OF COMMERCE	ATTY DOCKET NO.		SERIAL	NO.	
∥		245259US0DIV 10/706,083						
				APPLICANT				
LIST OF	REFEF	RENCES CITED BY AP	PLICANT	Shigeru KAWAHARA, et al.				
				FILING DATE		GROUP		
				November 13, 2003	_	1621		
	-			U.S. PATENT DOCUMENTS				
EXAMINER		DOCUMENT	DATE	NAME	CLASS	SUB		LING DATE
INITIAL		NUMBER	DATE	NAME	CLASS	CLASS	IF AF	PPROPRIATE
	AA							,
	AB							
	AC							
	AD,							
	ΑE					Di		IVED
	AF					8 8.1		IVEU
	AG					00	T 0 4	2004
	АН							
	AI					OFFIC	E OF	PETITIONS
	AJ							
	AK							
	AL		<u> </u>					
	AM							
	AN							
			EO.	REIGN PATENT DOCUMENTS			<u> </u>	
			T	I I I I I I I I I I I I I I I I I I I		1		
		DOCUMENT NUMBER	DATE	COUNTRY		YE	TRANSL	ATION NO
	AO							
	AP							
	AQ							
	AR							
	AŞ							
	AT							
	ΑU							
	AV							
		OTHER RI	EFERENCES (Including Author, Title, Date, Pertir	ent Pages, e	etc.)		
	AW	T.W. GREENE, et al., XP-002089517	"PROTECTIV	E GROUPS IN ORGANIC SYNTHESI	S", New York	, Wiley & S	Sons, 199	1, pp. 168-170,
	AX							
	AY				_			
	AZ				Add	itional Refe	erences s	sheet(s) attached
Examiner					Date Co	nsidered		
*Examiner: In conformance	nitial if r	eference is considered, ot considered. Include c	whether or no opy of this for	t citation is in conformance with MPEI n with next communication to applican	P 609; Draw li it.	ine through	citation	if not in



Europäisches Patentamt

Zweigstelle in Den Haag Recherchenabteilung European Patent Office

Branch al The Hague Search division Office européen des brevets

Département à La Haye Division de la recherche

Nicholls, Kathryn Margaret
Mewburn Ellis LLP
York House
23 Kingsway
London WC2B 6HP
GRANDE BRETAGNE

RECEIVED

- 6 SEP 2004

MEMBURN ELLIS LLP

PECCOMPAGNICATION

PECCOMPAGNICATION

PERION ALLIA COLOR

Dation/Bate

01.09.2004

L	
Zeicher/Ret./Aef. KMN/F) 6050108	Anmeldung Nr./Application No./Demande nº./Patent Nr./Patent No./Brevet nº. 00974890.6
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire	

COMMUNICATION

The Europe	ean Patent Office herewith trans	mits			
	the European search report				
	the declaration under Rule 45	EPC			
	the partial European search re	eport under Rule 45	EPC		
X I	the supplementary European relating to the above-mentions enclosed.				
The tollowli	ng specifications given by the ap	pplicant have been t	approved by the Search D) ivision :	
	Abstract	☐ Title			Figure
	The abstract was modified by t	the Search Division	and the definitive text is a	ittached to this com	nmunication.
	The following tigure will be pub	olished with the abst	ract, since the Search Div	ision considers the	at it better characterises
	the invention than the one indic	cated by the applica	nt.		
	Figure:				
M	Additional copy(copies) of the	documents cited in	he European search repo		
/ \	1			· <u>·</u>	Bischas Patentamy

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



		 	
EPO Form 1507 0	2.93		



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 97 4890

	DOCUMENTS CONSI	DERED TO BE RELEVANT]
Category	Citation of document with of relevant pa	Indication, where appropriate, ssages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCI,7)
Y,D	THE SOLVOLYSIS OF GEM-DIMETHYL-SUBST P-BROMOBENZENESULF JOURNAL OF ORGANIC CHEMICAL SOCIETY.	ITUTED 4-ARYL-1-ALKYL ONATES" CHEMISTRY, AMERICAN EASTON, US, 72, pages 825-836, 1, lines 12-26 *	1-19	C07K5/06 C07C45/41 C07C47/277 C07C51/367 C07C303/30
	US 5 480 668 A (NO 2 January 1996 (19 * column 6, lines		1-19	
	OF CARBOXYLIC ACID ALDEHYDESCATALYZED IN THE PRESENCE OF CHEMISTRY LETTERS,	BY PALLADIUM COMPLEXES PIVALIC ANHYDRIDE" CHEMICAL SOCIETY OF no. 11, 1998, pages 9904	1-13	TECHNICAL FIELDS SEARCHED (IM.CI.7) CO7K CO7C
	2-BENZOYLBENZOIC A JOURNAL OF AGRICUL CHEMISTRY, AMERICA WASHINGTON, US,	RELATIONSHIPS OF SWEET CID DERIVATIVES" FURAL AND FOOD N CHEMICAL SOCIETY. Poono655884 Ins 1-2 * Ins 1 * In	1-13	
Į	he supplementary search repo	-/ int has been based on the last		
	et of claims valid and available		<u> </u>	
	funich	Date of completion of the search 18 August 2004	Kie	rnan, A
X : particu Y : particu docum A : techno O : non-w	TEGORY OF CITED DOCUMENTS plarty relevant if laken alone ularty relevant if combined with ano lent of the same category plogical background written disclosure ediate document	E : earlier patent doo after the liling dat	urnent, but public e the application or other reasons	shed on, or



SUPPLEMENTARY **EUROPEAN SEARCH REPORT**

Application Number EP 00 97 4890

	DOCUMENTS CONSID			Daloussa	OI ACCURING	
Category	Citation of document with i of relevant pas		ale,	Relevant to claim	CLASSIFICATION APPLICATION	(IM.CI.7)
D,Y	GREENE T W ET AL: ORGANIC SYNTHESIS" PROTECTIVE GROUPS I NEW YORK, WILEY & S 168-170, XP00208951 * the whole documen	N ORGANIC SYNTI ONS, US, 1991, 7	ESIS,	1-19		
				1		
			-		Brown of F	
					TECHNICAL F SEARCHED	(Int,CI.7)
;						
•						
Ì						
1						
	The supplementary search reported to fairns valid and available	t has been based on the at the start of the search	last			
1	Place of search	Date of completion	•	1	Examiner	
	Munich	18 Augus	t 2004	Kie	nan, A	
X : parti Y : parti docu A : techi	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot ment of the same category nological background written disclosure mediate document	E: ner D: L:-	earlier patent doc after the filing dat document cited it document cited fo	n the application or other reasons	hed on, or	**********



CLAIMS INCURRING FEES	
The present European patent application comprised	at the time of filing more than ten claims.
Only part of the claims have been paid within report has been drawn up for the first ten claim been paid, namely claim(s):	n the prescribed time limit. The present European search aims and for those claims for which claims fees have
No claims fees have been paid within the probeen drawn up for the first ten claims.	escribed time limit. The present European search report has
LACK OF UNITY OF INVENTION	
The Search Division considers that the present Europ requirements of unity of invention and relates to sever	ean patent application does not comply with the ral inventions or groups of inventions, namely:
see sheet B	
All further search fees have been paid within been drawn up for all claims.	the fixed time limit. The present European search report has
As all searchable claims could be searched v did not invite payment of any additional fee.	vithout effort justifying an additional fee, the Search Division
Only part of the further search fees have bee search report has been drawn up for those prinventions in respect of which search fees has	n paid within the fixed time limit. The present European arts of the European patent application which relate to the we been paid, namely claims:
	9
None of the further search fees have been pare report has been drawn up for those parts of the first mentioned in the claims, namely claims:	aid within the fixed time limit. The present European search the European patent application which relate to the invention
•	

LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 00 97 4890

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13,16-19

Sulfonyl-protected 3-hydroxy-4-methoxyphenyl-3-methylbutyl carboxylic acid, a process for its preparation and its use for the synthesis of N-'N-'3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl!L-alpha-as partyl!-L-phenylalanine 1-methyl ester

2. claims: 14,15

Benzene derivatives of formula (3)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 97 4890

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of Information.

18-08-2004

	document earch report	Publication date		Patent family member(s)		Publication date
US 548	0668 A	02-01-1996	FR	2697844	A1	13-05-1994
50 5 10			ΑT	138935	T	15-06-1996
•			AU	664663	B2	23-11-1995
			AU	5468194	Α	08-06-1994
			BG	61609	B1	30-01-1998
			BG	99299	Α	29-09-1995
			CA	2139233	A1	26-05-1994
			CN	1090571	A ,B	10-08-1994
			CZ	9403319		18-10-1995
			DE	69303032	D1	11-07-1996
			DE	69303032	T2	02-10-1996
			DK	669935	T3	01-07-1996
			EΕ	3194	B1 - 17.1.1	15-06-1999
			EP	0669935	Al-	06-09-199
			ES	2091114	T3	16-10-1996
			FΪ	945451	A	22-12-199
			WO	9411391	Al	26-05-1994
			GR	3020164	T3	30-09-1990
			HU	72192	A2	28-03-1990
			ΙL	107551	A	16-08-1998
			JP	2818032	B2	30-10-1998
			JP	8503206	T	09-04-1990
			KR	254297	B1	01-05-2000
			LT	1457	A ,B	15-06-1994
			MD	960256	A ´	31~03-1998
			NO	945090	A	30-12-1994
			NZ	257870	A	26-03-1996
			PL	306841	A1	18-04-1995
			RO	112621	B1	28-11-1997
			RU	2107071	C1	20-03-1998
			SK	158694	A3	10-05-1999
			ZA	9308430		13-06-1994